

# 6

52071-4.ST25.txt  
SEQUENCE LISTING

&lt;110&gt; Annibali, Nestor

&lt;120&gt; Expression of a Human Insulin Precursor In P. Pastoris

&lt;130&gt; 52071.4

&lt;140&gt; US 09/955,259

&lt;141&gt; 2001-09-12

&lt;160&gt; 26

&lt;170&gt; PatentIn version 3.1

&lt;210&gt; 1

&lt;211&gt; 36

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Synthetic Primer

&lt;400&gt; 1

tcacacctgg tgaaagctct ctaccttagtg tgcggg

36

&lt;210&gt; 2

&lt;211&gt; 45

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

52071-4.ST25.txt

<220>

<223> Synthetic Primer

<400> 2

ggctttgggt gtgtagaaga agcctcggtt cccgcacact aggtta

45

<210> 3

<211> 39

<212> DNA

<213> Artificial Sequence

<220>

<223> gctggtagacag cattgttcca caatgccacg cttggtcttg ggtgt

<400> 3

tttgtgaacc aacacctgtg cggtcacac ctggtgaa

39

<210> 4

<211> 45

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Primer

<400> 4

gctggtagacag cattgttcca caatgccacg cttggtcttg ggtgt

45

<210> 5

<211> 52

<212> DNA

<213> Artificial Sequence

<220>

52071-4.ST25.txt

<223> Synthetic Primer

<400> 5  
ctagtgcag tagttctcca gctggtagag ggagcagatg ctggcacagc at 52

<210> 6

<211> 162

<212> DNA

<213> Artificial Sequence

<220>

<223> complete synthetic insulin precursor obtained by PCR using human insulin sequence as original source

<400> 6  
tttgtgaacc aacacctgtg cggctcacac ctggtgaaag ctctctacct agtgtgcggg 60  
gaacgaggct tcttctacac acccaagacc aagcgtggca ttgtgaaaca atgctgtacc 120  
agcatctgct ccctctacca gctggagaac tactgcaact ag 162

<210> 7

<211> 50

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Primer

<400> 7  
acttggttga agctttgtac ttggtttgtg gtgaaaagg tttcttctac 50

<210> 8

<211> 50

<212> DNA

<213> Artificial Sequence

52071-4.ST25.txt

<220>

<223> Synthetic Primer

<400> 8

agaagtacaa cattgttcaa cgataacctct cttagtcttt ggagtgtaga

50

<210> 9

<211> 33

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Primer

<400> 9

acacttgtgt ggttctcaact tgggtgaagc ttt

33

<210> 10

<211> 66

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Primer

<400> 10

ttactcgagt tagttacagt agttttccaa ttggcacaaa gaacagatag aagtacaaca

60

ttgttc

66

<210> 11

<211> 36

<212> DNA

<213> Artificial Sequence

<220>

52071-4.ST25.txt

<223> Synthetic Primer

<400> 11  
ccgctcgaga agagatttgt taacccaacac ttgtgt 36

<210> 12

<211> 162

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic insulin precursor, obtained by PCR using human insulin sequence as original source

<400> 12  
tttgttaacc aacacttgtg tggttctcac ttgggtgaag ctttgactt gggttgtgg 60  
gaaagagggtt tcttctacac tccaaagact aagagaggta tcgttgaaca atgttgtact 120  
tctatctgtt ctttgtacca attggaaaac tactgtaact aa 162

<210> 13

<211> 56

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Primer

<400> 13  
cgcggatcca aaccatgaga ttcccatcta tcttcactgc tggtttgttc gctgct 56

<210> 14

<211> 68

<212> DNA

<213> Artificial Sequence

52071-4.ST25.txt

<220>

<223> Synthetic Primer

<400> 14  
gttttggcg ctgcttcgg tgctttggct gctcctgtta acactactac tgaagacgaa 60  
actgctca 68

<210> 15

<211> 71

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Primer

<400> 15  
acgtcgaagt caccttccaa gtcagagtaa ccgataaccg cttcagctgg gatttgagca 60  
gtttcgtctt c 71

<210> 16

<211> 66

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Primer

<400> 16  
gatgaacaac aaaccattat tagtagagtt agagaaaggc aaaacagcaa cgtcgaagtc 60  
accttc 66

<210> 17

<211> 72

<212> DNA

52071-4.ST25.txt

<213> Artificial Sequence

<220>

<223> Synthetic Primer

<400> 17

ccgctcgaga gaaacaccct cttccttagc agcgatagaa gcgatagtag tggatgaa 60  
caacaaacca tt 72

<210> 18

<211> 267

<212> DNA

<213> Artificial Sequence

<220>

<223> synthetic sequence of alpha factor from S. cerevisiae, obtained by PCR

<400> 18

atgagattcc catctatctt cactgctgtt ttgttcgctg cttcttctgc tttggctgct 60  
cctgttaaca ctactactga agacgaaact gctcaaattcc cagctgaagc gtttatcggt 120  
tactctgact tggaaaggta cttcgacgtt gctgtttgc ctttctctaa ctctactaat 180  
aatggtttgt tgttcatcaa cactactatc gcttctatcg ctgctaagga agagggtgtt 240  
tctctcgaga agagagaggc tgaagca 267

<210> 19

<211> 44

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Primer

<400> 19

ggggatccat atgctcgaga aaagatttgt gaaccaacac ctgt 44

52071-4.ST25.txt

<210> 20  
<211> 32  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic Primer

<400> 20  
ttagaattcc cgggtctagt tgcagtagtt ct 32

<210> 21  
<211> 30  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic Primer

<400> 21  
tcactcgagc ggtctagttg cagtagttct 30

<210> 22  
<211> 28  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Synthetic Primer

<400> 22  
gtcgtggttt ctcatagtag agtggaca 28

<210> 23

52071-4.ST25.txt

<211> 18

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Primer

<400> 23

ggtcatcaact gctccatc

18

<210> 24

<211> 19

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Primer

<400> 24

agcagcacca gtggaagat

19

<210> 25

<211> 21

<212> DNA

<213> Artificial Sequence

<220>

<223> Synthetic Primer

<400> 25

gactggttcc aattgacaag c

21

<210> 26

<211> 4

52071-4.ST25.txt

<212> PRT

<213> *Saccharomyces cerevisiae*

<400> 26

Lys Arg Glu Ala  
1